22 October 1951

AYC HEMORANDUM FOR :

SUBJECT

Proposal for Research on Improvements in Interrogation Techniques by the Use of Aural Side Tone Delay.

1. Approximately two weeks are, scalled me because of his knowledge of my previous connection with research matters and brought to my attention the subject proposal, copies of which are attached hereto.

In town and arrancements were made for ryself and

to witness a demonstration. We were very
much impressed with this demonstration and feel that this
device may be possibly used in connection with CIA.

endeavors. This proposal was referred to
of I&S. It has since been returned to me with a notation
that this particular device would not have any feasible
une in their program.

my put this proposal into the proper channels, CIA, wide because I believe it has a potential use in some of our operations. It is my sugmestion that it may be of value to determine how well our agents may be able to react under pressure. It could also be of une in connection with prisoner of war interrogation. If appears also, as was demonstrated, to have a potential use in connection with the program wherein after the interrogator has developed critical areas, by skillful use this particular type of detection wich result in a confession. If any activity here is interested in a demonstration or development of this proposal, I would be very plad to and the increase of the proper poople in the service of the interest of the service of the proposal of the service of the service

reasonable time, there

remonable time, there is no interest shown we should notify the to that effect.

14G

Attachment: Proposal for Research on Improvements in Interrogation Techniques by the Use of Aural Side Tone Delay.

A&G -

Orig. & 1 - Addressee

PROPOSAL FOR RESEARCH ON IMPROVINGITS IN INTERROGATION TROUNTQUES BY THE USE OF AURAL SIDE TO'M DELAY Scrtember 14, 1951

Proposal for Research on Improvements in Interrogation Techniques by the Use of Aural Side Tone Delay

As a result of some discussions between of the and the underdigned on the subject of observations on the effects of side tone delay and the possible copplication of effect to oriminal and prisoner of war interrogetion, some experiments were conducted to gain an idea of the possible scope and potential importance and practicability of the technique.

Subsequently, in a doministration, witnessed by of the jact, who had come in for routine lie-detector examination in connection with confessed with unusual

abruptness when he was subjected to side tone delay during his answers to the particular questions to which he had previously given abnormal blood pressure responses under test with the

The apparatus utilized was compareti .1, cimple, consisting of a Francord Model IT53-AR Recorder and Magnesori Model IT63-A Relifier. This recorder has three magnetic heads for enasing, resording had monitoring a large as it is pulled through the system at 7.5 index per second. The recording had monitoring a large was a large man and attend by the subject into the recording microphone and the recorded-playback signal in the earnhones worn by the subject being interrogated. An alternative delay of 0.1 second, attained with the same record-playback head quading but with a tape speed of 15 inches ner second is available but preliminary tests indicated, as was to be expected from the subject than a 0.2 second delay has considerable more effect on the subject than a 0.1 second delay. Consequently, the 0.2 second delay was used in further testing.

The subject strongly maintained his immoseme in preliminary quastioning and during and after the tort using the Delygraph, which records blood prescure, heart rate, respiration rate and muscular normant. The polygraph record showed abnormal deviations during several key questions. The subject was then interregated with the aid of the aids from the apparatual wing the key questions and a veriety of irrelevant questions. The aids to the delay was employed during the neavers to the questions which had proviously given abnormal polygraph responded and was ont out to that there was no delay during the amswers to questions which had accasioned no abnormal polygraph responded. After concluding this part of the interregation the record was played back and the subject was asked the reason for his difficulty in riving answers to the key questions. The confession followed almost immediately.

It should be pointed out that this technique, or a refined redification of it. If employed with an iunocont onlyiest we has riven pseudo-guilty reactions, cannot result in false self-incrimination in the nature of things, but at most would result in a somewhat confused state of mind on the part of the swiect.

It is therefore our desire to pursue this line of investigation and to devote particular attention to several points. These are:

- Through imertigation of the variables such as longth of delay used, the smooth variation of delay during the interval of passing from an irrelevant to a bay (quilty response) question, the timing of questions, the reading of a prepared statement versus questioning during the test, the length of answer desired from the subject, etc.
- The adoptation of the technique to primorer of war interrogation, time we believe from those preliminary experiments that striking increases in speed and efficiency of the interrogation and subsequent divulgance of decired information may be found possible.
- 7. The inradigation of remote reading instrumentation, since it appears to us that one of the important Alfferences between criminal and prisoner of for interregation list in the non-rolunteer nature of the latter and therefore questioning without instrumentation attached to the subject may have decided advantages over the usual polygraph technique. It appears reasonable, for instance, that remote indicating infirated radiation lawel indicators, which have reached a high degree of develonment in other fields, sould take the place of the blood reasure polygraph attachment without the subject being warse of the measurement taking place. This assumption is based on what appears to be a reasonable expectation of a heart rate, skin radiation correlation.
- 4. The investigation of the possibility of producing side tone dalay and allied effects without the use of carphores. It is believed rescalable to concer that by use of a wiscophone, estembly for resording purposes, but which is a modified throat type of microphone so that underfulle found on the evolded, coupled with focusing speakers, that writes the level of nound in the vicinity of the subjects cars cufficiently shown that of his direct voice level so that his aware only of the round from the openers, the effect of cide tone dolay may be mained mitthout attached complemes. This may be desimalle for non-volunteer questioning.
- f. Pecophica detection molygraph techniques have not reached the state of their and is steple and automatic. In a metter of fact, solar analysis state that highly emperienced normators and intronounts are a prime mosestily because of wide individual difference emony subjects. It may uttimately move possible, however, with improceeding highests altogethe to merate directly side tone delay by almormal polygraph techniques to merate directly side tone delay by almormal polygraph responses. Reedless to say, the methy is relatively chaple from a recharical and electronic point of view. Surve mechanism techniques would provide mile that the content of the state of the properties of the state of the st

detrotor techniques can be sufficiently improved the direct control of side tone delay will be an almost immediate restity. It might be stated at this point that if the

work suggested that the business care lost will have to be reduced to accommodate the project. Jowever, it must be further stated that the experiments, by necessity and for adequate results, must be administrated using actual Interstory case subjects. It has always been the allegation of that failures in He detection experimentation have been due to the use of experimental care subjects who demonstrate a willinguess to cooperate so that the reportments will be a success. Actual case subjects, by the intire of their flight, will not show the same willinguess to cooperate to assist the experiments.

Un believe
- Cacilities are adequate and actual case local sufficient to complete
the experiment.

This preliminary proposal is submitted to the for the purpose of ascertaining the possibility of navel interest in and financial support of a research program along the lines discussed above. It is foreseen that a full line investigator will be required. Instrumentation, some of which is available from stock and some of which will have to be sputially designed and built, will be required. Will serve as director on a part-time basis.

Very truly yours,